

Notice of Allowability**Application No.**

10/796,731

Applicant(s)

WEI ET AL.

Examiner

Art Unit

Stanetta D. Isaac

2812

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to the amendment filed on 9/20/04.2. The allowed claim(s) is/are 18-42 and 77-87.3. The drawings filed on 09 March 2004 are accepted by the Examiner.4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).a) All b) Some* c) None of the:1. Certified copies of the priority documents have been received.2. Certified copies of the priority documents have been received in Application No. _____.3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.**Attachment(s)**1. Notice of References Cited (PTO-892)5. Notice of Informal Patent Application (PTO-152)2. Notice of Draftsperson's Patent Drawing Review (PTO-948)6. Interview Summary (PTO-413),
Paper No./Mail Date _____.3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____7. Examiner's Amendment/Comment4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material8. Examiner's Statement of Reasons for Allowance9. Other _____.

EXAMINER'S AMENDMENT/COMMENTS

This Office Action is in response to the amendment filed on 9/20/04.

Specification

The newly submitted abstract, filed on 9/20/04, has been reviewed and is accepted by the Examiner. The objection to the abstract has now been withdrawn.

An examiner's comment to the record appears above. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The closest prior art of record, the combination of Yamaguchi et al. US Patent 5,926,703 and Yu et al. US Patent 6,221,724, fails to show, a first, second and third doped region, being comprised of a dopant material that is the same type as the bulk substrate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stanetta D. Isaac whose telephone number is 571-272-1671. The examiner can normally be reached on Monday-Friday 9:30am -6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Niebling can be reached on 571-272-1679. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stanetta Isaac
Patent Examiner
November 8, 2004



John F. Niebling
Supervisory Patent Examiner
Technology Center 2800